

Appl. No. 09/684,725
Amdt. Dated February 19, 2004
Attorney Docket No. PC10361A

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claims 1-8 (Canceled)

2. ~~9.~~ (Currently amended) A expression vector comprising a polynucleotide of claim 23.¹

3. ~~10.~~ (Currently amended) A cultured host cell transformed or transfected with the polynucleotide of claim 23, wherein said polynucleotide is expressed under conditions sufficient for expression. expression vector of claim 9.²

4. ~~11.~~ (Currently amended) A process for producing a polypeptide encoded by the polynucleotide of claim 23 comprising culturing ~~the transformed/transfected~~ a host cell transformed or transfected with an expression vector comprising of claim 10 under conditions sufficient for the expression of the polynucleotide of claim 23.¹

5. ~~12.~~ (Currently amended) A membrane preparation of a cell of ~~claim 10~~ transformed or transfected with an expression vector comprising the polynucleotide of claim 23, wherein said membrane comprises a polypeptide produced by expression of encoded by the polynucleotide of claim 23 at an increased level as compared to a membrane preparation from a cell of the same cell type which is not transformed or transfected with said expression vector.

Claims 13-22 (Canceled)

1. ~~23.~~ (Currently amended) An isolated or purified polynucleotide comprising a polynucleotide selected from the group consisting of:

- (a) a polynucleotide encoding the polypeptide of SEQ ID NO: 2;
- (b) a polynucleotide of SEQ ID NO: 1;
- (c) a polynucleotide contained in the clone deposited as National Collections of Industrial and Marine Bacteria Limited (NCIMB) 41066; and
- (d) a polynucleotide comprising a nucleotide sequence that has at least 95% identity to the polynucleotide of any one of (a) to (c) and encodes a naturally-occurring, functional neuromedin U receptor that mediates, in HEK-293 cells transfected with and expressing said polynucleotide, a specific, neuromedin U-induced increase in intracellular calcium following contact with neuromedin U.

6. ~~24.~~ (Previously presented) An isolated or purified polynucleotide comprising a

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polynucleotide sequence which encodes the polypeptide of SEQ ID NO: 2.

7 ~~25~~. (Previously presented) The isolated or purified polynucleotide of claim ~~24~~⁶,
wherein said polynucleotide comprises the polynucleotide of SEQ ID NO: 1.

Claims 26-31 (Canceled)

8 ~~32~~. (Previously presented) An isolated or purified polynucleotide comprising the
DNA contained in the NCIMB deposit 41066.

Claims 33-36 (Canceled)